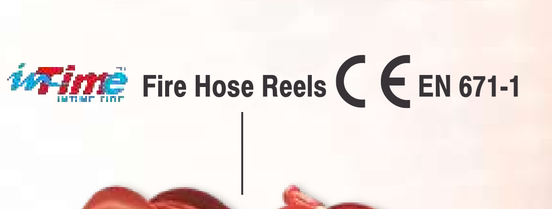


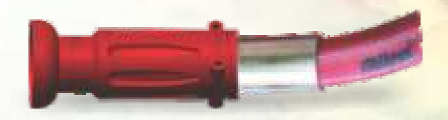
ISO 9001:2008 CERTIFIED QUALITY SYSTEM

























Fire Hose Reels

Fire Hose Reels CE EN 671-1















For Technical Specifications see overleaf...





Technical Specifications



New Design... !!

Features :

- **Side Plates** — Made of high quality mild steel, powder coated in Red colour.
- **Side Plates O.D. (Diameter)** — 560 mm
- **Distance Between Side Plates** — 6 Inches
- **Waterways** — Made from non-ferrous metal (Aluminum Alloy) for making it corrosion-free, duly powder coated.
- **Hose Reel Drum** — Confirming to EN 671-1:2001
- **Fire Hose** — High quality semi-rigid ISI marked (Type I & Type 2) / CE marked / EN approved, flame resistant, kink & abrasion resistant, fluted finish MITRAS Thermoplastic Hose with 2 years Guarantee.
- **Hose Colours Available** — Red / Black / Yellow
- **Hose Nominal Bore (ID)** — 19mm / 20mm / 25mm, as per requirement.
- **Hose Length** — 20 / 25 / 30 / 36 / 40 mtrs, as per requirement.
- **Shut-off Nozzle** — Rotary operated, leak proof, CE marked/EN approved, hydraulically crimped with corrosion-free Stainless Steel fitting, shut-off nozzle with shut, spray & jet functions, made of super tough Polymer Alloy in red colour.
- **Swivel** — 180° double swivel
- **Working Pressure** — 1.2 Mpa (12 Bar)

Note : Due to technical up gradation, design and specification may be changed without prior notice.





Features :

Type : Swinging 180° Wall Mounting
Size : Inlet 20mm (¾" BSP Thread Size)
Confirming Specification : IS 884

Material of Construction :

- Hub Sides & Wall Bracket - M.S. Sheet of IS:513
- Swivel Joint - LTB-2 of IS:318
- Pipe with Fitting - Steel of IS:1239 Part I
- Branch Pipe with Nozzle - IS:8090
- Hose Reel Tubing - Thermoplastic Hose confirming to IS:12585

Performance Test :

- **Hydrostatic Test : Test at 21Kgf/cm²**
- **Range & Water Flow rate test at 7 Kgf/cm²**
  (A) Discharge : 24LPM
  (B) Range (Jet Length) : 6 mtr (min)

InTime™ (INTIME FIRE) Hose Reel Connector



- Connects Fire Hose Reel to Main Line
- ISI (IS:12585) marked 25mm Type-2 Hose used
- Hydraulically fitted with Steel / Aluminum fittings
- Easy to fit
- Leak-proof
- Aesthetically appealing
- Colour Available - Red / Black / Yellow

InTime™ (INTIME FIRE) Jet Spray Shut-off Polymer Nozzle for Hose Reels



Guarantee 2 GUARANTEED YEARS against manufacturing defects

- CE marked (confirming to EN 671-1)
- Patent Design No. 244452
- Super-tough recyclable Polymer Alloy used
- Leak proof
- Corrosion Free
- Rotary Operated
- Stronger Grips
- Appealing Looks in Red colour
- 2 Years Guarantee
- Also available hydraulically fitted on hose with Stainless Steel fitting

InTime™ (INTIME FIRE) Discharge Hose for Fire Extinguishers



- Complete Discharge Hose Assembly with ISI marked / non-ISI Hose
- Only Hose (12.5mm & 10mm ID) ISI marked / Non-ISI also available
- Double colour Hose available
- W.P. 20 Kg/cm², B.P. 60 Kg/cm²
- Hydraulically crimped - using Aluminum caps
- Fitted with unbreakable Red Nozzle made of super-tough Polymer Alloy



inTime™ THERMOPLASTIC HOSES for Hose Reels



When you are fighting FIRE... and your FIRE HOSE does not work...
NOTHING works... !!





- ISI (IS:12585) / CE marked as per EN 694
- 2 Years Guarantee
- Better pressure sustainability & appealing looks
- Available in 19mm / 20mm / 25mm 31.5mm / 38mm ID sizes
- Non-corrosive, Light weight, Recyclable Thermoplastic material
- Flame resistant, Abrasion & Kink resistant



We specialize in ISI **marked (IS:12585)** inTime **THERMOPLASTIC FIRE HOSES** for Hose Reels & Fire Extinguishers. The Bureau of Indian Standards (BIS) has made it compulsory to use ISI marked Hose for **First Aid Hose Reel for Fire Fighting** under **IS:884:**1985. Our Thermoplastic hose is **better than Rubber hose** for Fire Hose application, as given under :

inTime™ Thermoplastic Hose vs. Rubber Hose

Comparative Analysis

Criteria	Thermoplastic Hose	Rubber Hose
Durability	• Non-biodegradable • Non-corrosive • Does not get cracked • Chemically stable • Very durable • Does not de-polymerize • Longer shelf life	• Degrades due to fillers • Corrodes with time • Gets cracked with the passage of time • Less chemically stable • Less Durable • Deteriorates with time • Lesser shelf life
Flame Resistance	• Flame resistant, Self extinguishing	• Rubber is not flame resistant
Weight	• Lighter in weight	• Excessive weight
Pressure	• Better pressure sustainability	• Lesser pressure sustainability
Aesthetics	• Smooth surface finish	• Rough surface finish
	• Looks much better	• Aesthetically not appealing
Abrasion & Kink Resistance	• Fluted finish for abrasion & kink resistance and stronger grip	• Fluted finish not available in rubber hoses
Re-cyclabilty	• Recyclable, being thermoplastic, so comparatively eco-friendly	• Not recyclable, so not eco-friendly comparatively
Value for Money	• Even after superior quality & so many benefits, **Economical** too	• Even inferior quality does not make it economical
Guarantee	• **2 Years Guarantee**	• No Guarantee or 1 year Warranty

Technical Specifications

- **Material : Thermoplastic Hybrid Compound**
- **Reinforcement : High Quality Synthetic Braided yarn.**
- **Adhesion between Lining & Covers :** At least 1.4 kN/m, in accordance with IS:3400 (Part-24):2001/ISO 8033:1991
- **Bend Radius :** Can work at a radius of 5 times to the nominal bore size, as specified in IS:12656:1989
- **Workability :** Can work at high pressures as **lab tested on calibrated machines**
- **Working Temperature :** It can work at up to 55°C atomospheric temperature **without kinking, melting or and sign of collapse**
- **Fire retarding properties :** Our **Thermoplastic Hybrid Compound** has inherently superior fire retarding properties due to its Chlorine content. Its ignition temperature is as high as 455°C, and is a **material with less risk for fire incidents** since it is **not ignited easily.** It is a **self extinguishing material** and does not continue to burn. Furthermore, the **heat released in is burning is considerably lower** than other materials of similar use. It, therefore, contributes much less to spreading fire to nearby materials even while burning. Hence, our **Thermoplastic Hybrid Compound is very suitable for safety reasons in products close to people's daily lives.**
- **Fluted Finish :** We provide fluted finish on our hoses for making them **abrasion resistant while being dragged** on the floor. This fluted finish also provides stronger grip while holding with wet hands or otherwise. It also makes it **kink resistant** due to long **grooves** on its surface, which provide **twist & bend resistance.** Optionally, Plain finish is also available.







Physical & Mechanical Properties		
Density	:	1.30 - 1.38 g/cm^2
Tensile Strength	:	2.60 N/mm^2
Notched Impact Strength	:	2.0 - 45 Kj/m^2
Yield Strength	:	10 - 25 MPa
Thermal Conductivity	:	0.14 - 0.17 W/(m.k)
Thermal Coefficient of Expansion	:	80 x 10-6
Resistivity	:	10^{12} - 10^{15} Ω m
Melting Point	:	approx. 360°F = 182 ^{o}C
Resistance to Chemicals		
Dilute Acids	:	Very Good
Dilute Alkalies	:	Very Good
Oils & Greases	:	Good (Variable)
Aliphatic Hydrocarbons	:	Very Good
Halogenated Hydrocarbons	:	Moderate (Variable)
Alcohols	:	Good (Variable)

Size & Pressures

ID (Nominal Bore)	Type	Working Pressure	Bursting Pressure
20mm (¾")	Type-1	6.2 Kg/cm²	19.5 Kg/cm²
		7.2 Kg/cm²	21.5 Kg/cm²
20mm (¾")	Type-2	10.2 Kg/cm²	32.5 Kg/cm²
		15 Kg/cm²	45 Kg/cm²
		20 Kg/cm²	60 Kg/cm²
25mm (¾")	Type-1	6.2 Kg/cm²	19.5 Kg/cm²
		7.2 Kg/cm²	21.5 Kg/cm²
25mm (1")	Type-2	10.2 Kg/cm²	32.5 Kg/cm²
12.5mm (½")		20 Kg/cm²	60 Kg/cm²

Note : Colour - Black / Red / Yellow

* Guarantee is not valid if the product is used for any application other than fire safety purpose